

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-22 (Cancelled).

Claim 23 (New): A resistor array comprising N lines of commands  $N_i$ , with i being a strictly positive integer, M columns of commands  $M_j$ , with j being a strictly positive integer, and NM resistors  $R_{ij}$ , each resistor  $R_{ij}$  being commanded by the line  $N_i$  and the column  $M_j$ , wherein at least one of the resistors  $R_{ij}$  has a negative thermal coefficient resistance and is associated with a thermally activatable component, further comprising means for adjusting the time for which the command voltage is applied to at least one of the resistors  $R_{ij}$ , in particular to each resistor  $R_{ij}$ , so as to obtain the desired output.

Claim 24 (New): The array according to claim 23, wherein each resistor  $R_{ij}$  is associated with a thermally activatable component.

Claim 25 (New): The array according to claim 23, wherein at least one of the activatable components is a microvalve.

Claim 26 (New): The array according to claim 23, wherein all of the resistors  $R_{ij}$  have negative thermal coefficient resistances.

Claim 27 (New): The array according to claim 23, wherein at least one of the negative thermal coefficient resistors is made of a single material.

Claim 28 (New): The array according to claim 26, wherein all of the negative thermal coefficient resistors are made of a single material.

Claim 29 (New): The array according to claim 23, wherein all of the resistors are identical.

Claim 30 (New): The array according to claim 23, wherein the negative thermal coefficient resistor includes tantalum nitride, a nickel-chromium alloy, or a nitride from refractory material.

Claim 31 (new): The array according to claim 23, wherein the negative thermal coefficient resistor has a temperature coefficient of between -100 and -3000 ppm/°C.

Claim 32 (New): The array according to claim 23, wherein the material used for at least one line and/or at least one column has a positive thermal coefficient resistance.

Claim 33 (New): The array according to claim 32, wherein all of the lines and/or all of the columns are made of a material with a positive thermal coefficient resistance.

Claim 34 (New): The array according to claim 33, wherein all of the lines and all of the columns are made of the same material.

Claim 35 (New): The array according to claim 23, which is associated with an insulating substrate.

Claim 36 (New): A method for producing a resistor array, wherein at least one of the resistors is obtained by placing a resistive material, of which the resistance has a negative thermal coefficient, on a substrate, including the association of this resistor with a thermally-activatable component, and including the association of at least one resistor with means for adjusting the time for which the command voltage is applied.

Claim 37 (New): The production method according to claim 36, including the deposition of the resistive material by cathode sputtering.

Claim 38 (New): The production method according to claim 36, including the deposition of a conductive material on the substrate so as to form lines before the resistive material is deposited.

**Claim 39 (New):** The production method according to claim 36, including the deposition of a conductive material so as to form columns after the resistive material has been deposited.

**Claim 40 (New):** The method according to claim 36, including a step of depositing a material insulating the lines from the columns on said substrate.

**Claim 41 (New):** The method according to claim 36, including the choice of a material of which the resistance has a positive thermal coefficient for the lines and/or columns.

**Claim 42 (New):** The method according to claim 36, including the association of the array with a microvalve array.

**Claim 43 (New):** A device for biological use, including an array according to claim 23, associated with a microfluidic array.